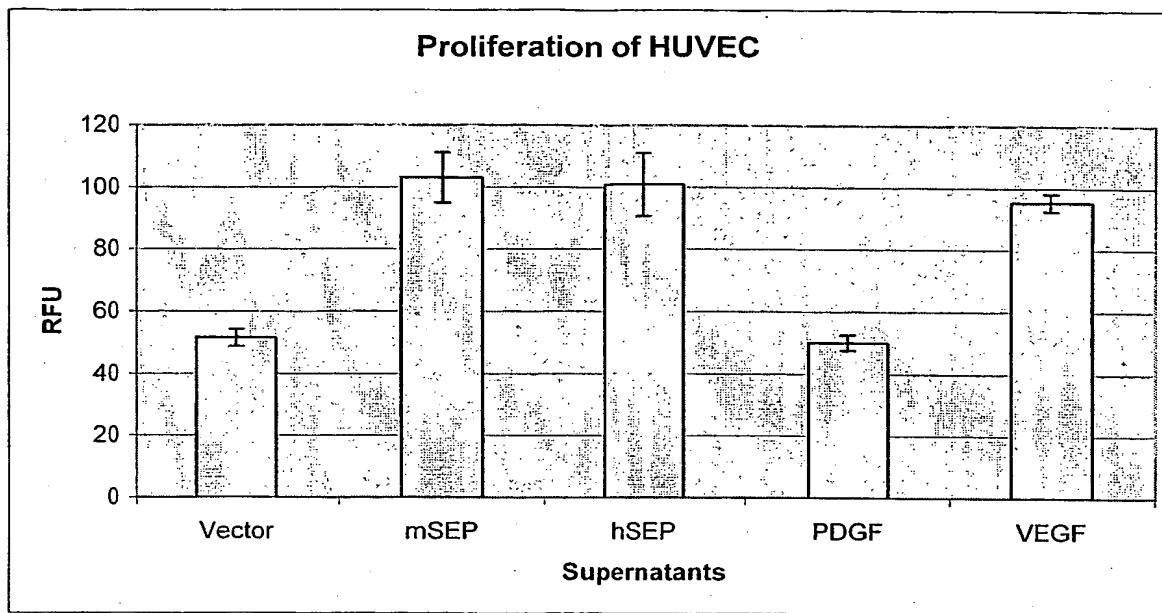
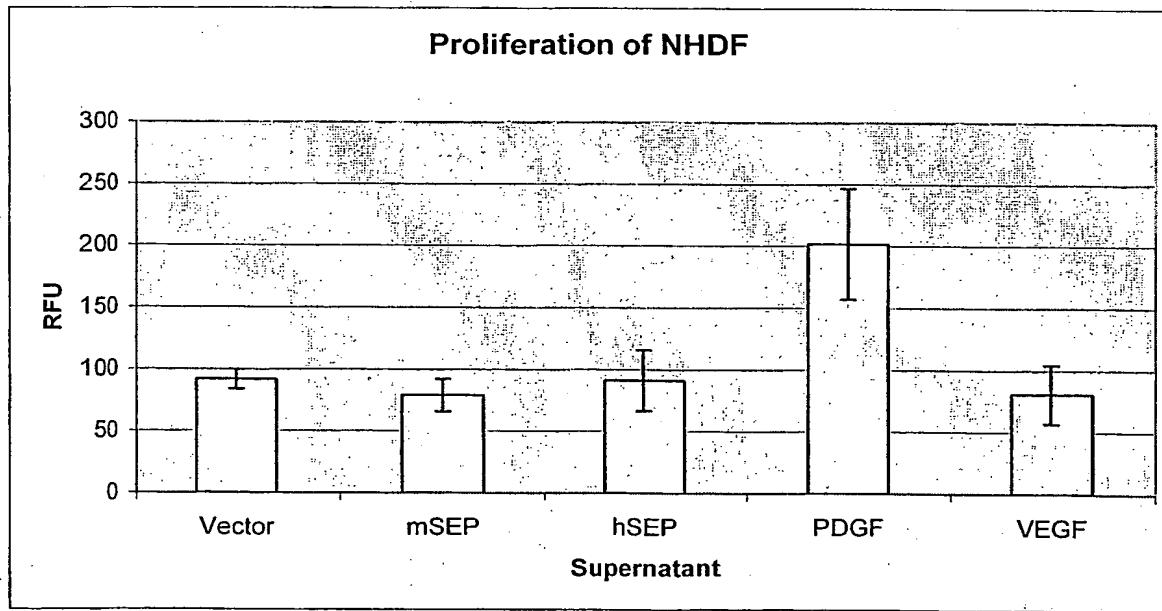


Fig. 1



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Fig. 2



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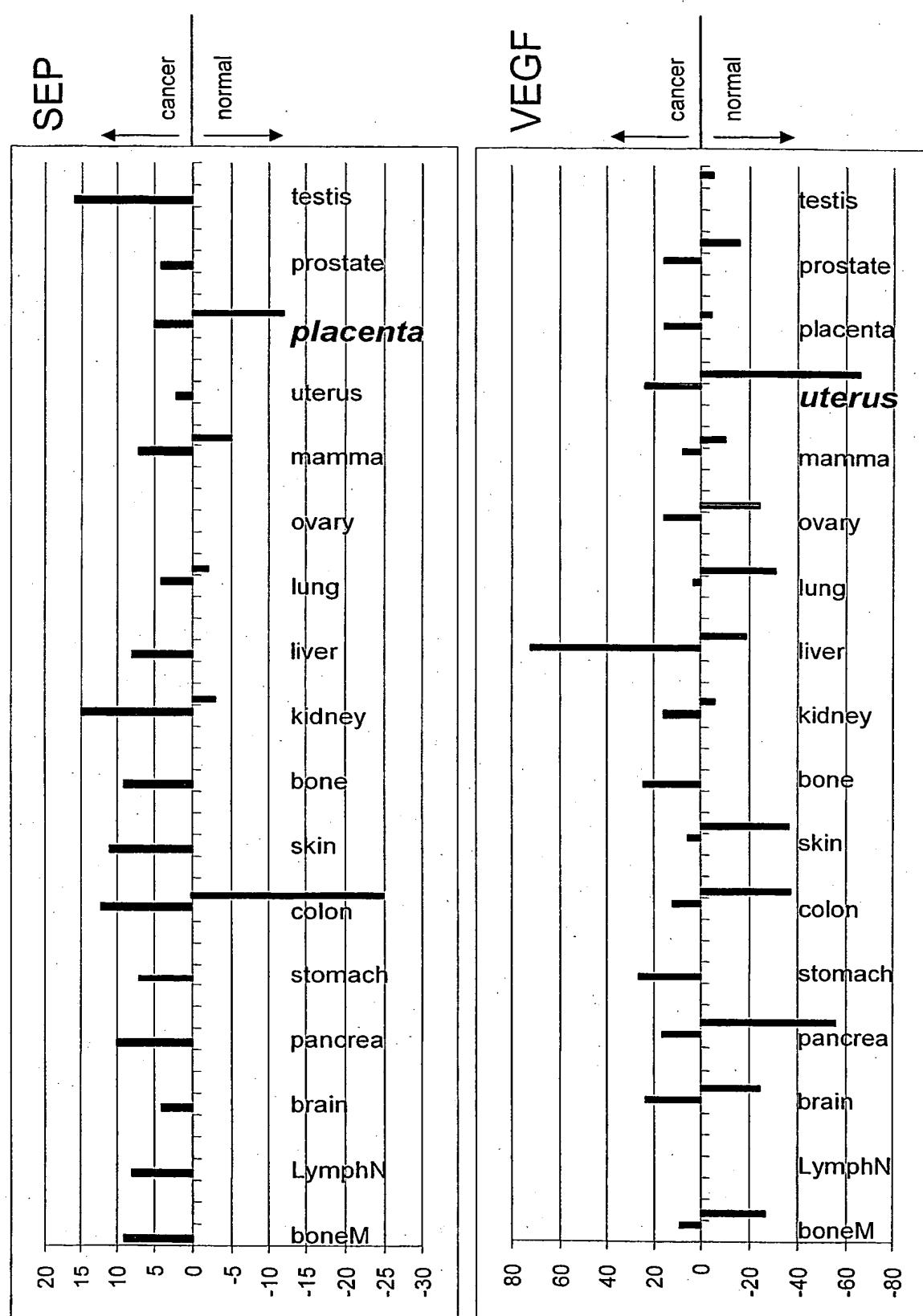


Fig. 3

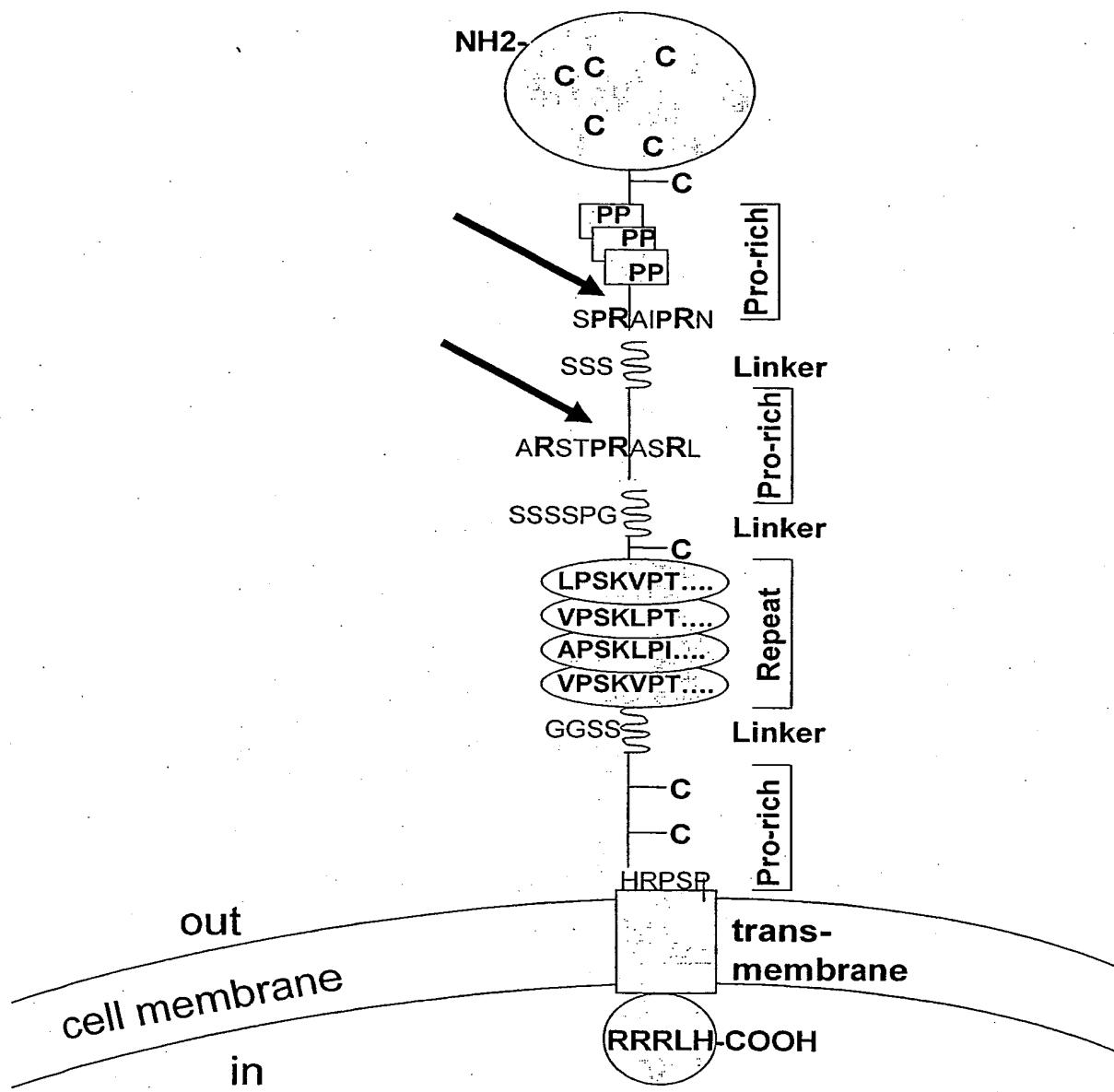


Fig. 4

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Fragment 1 (1-510):

MPFAEDKTYKYICRNFNSFCNVDVVEILPYLPCLTARDQDRLRATCTLSGNR
DTLWHLFNTLQRRPGWVEYFIAALRGCELVDLADEVASVYESYQPRTSDRP
PDPLEPPSLPAERPGPPTPAAAHSIPYNSCREKEPSYPMPVQETQAPESPG
ENSEQALQTLSPRAIPRNPDGGPLESSSDLAALSPLTSSGHQEKDTELGSTH
TAGATSSLTPSRGPVSPSVSFQPLARSTPRASRLPGPTGSVVSTGTSFSSSS
PGLASAGAAEGKQGAESDQAEPICSSGAEAPANSLPSKVPTTLMPVNTVAL
KVPANPASVSTVPSKLPTSSKPPGAVPSNALTNPAPS KLPIINSTAGMVPSK
VPTSMVLTKVSASTVPTDGSSRNEETPAAPTPAGATGGSSAWLDSSFENRG
LGSELSKPGVLASQVDSPFSGCFEDLAISASTSLGMGPCHGPEENEYKSEG
TFGIHVAENPSIQLLEGNPGPPADPDGGPRPQADRKFQEREVPCHR

Fragment 2 (1-249):

MPFAEDKTYKYICRNFNSFCNVDVVEILPYLPCLTARDQDRLRATCTLSGNR
DTLWHLFNTLQRRPGWVEYFIAALRGCELVDLADEVASVYESYQPRTSDRP
PDPLEPPSLPAERPGPPTPAAAHSIPYNSCREKEPSYPMPVQETQAPESPG
ENSEQALQTLSPRAIPRNPDGGPLESSSDLAALSPLTSSGHQEKDTELGSTH
TAGATSSLTPSRGPVSPSVSFQPLARSTPRASR

Fragment 3 (1-246):

MPFAEDKTYKYICRNFNSFCNVDVVEILPYLPCLTARDQDRLRATCTLSGNR
DTLWHLFNTLQRRPGWVEYFIAALRGCELVDLADEVASVYESYQPRTSDRP
PDPLEPPSLPAERPGPPTPAAAHSIPYNSCREKEPSYPMPVQETQAPESPG
ENSEQALQTLSPRAIPRNPDGGPLESSSDLAALSPLTSSGHQEKDTELGSTH
TAGATSSLTPSRGPVSPSVSFQPLARSTPR

Fig. 5 a

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Fragment 4 (1-242):

MPFAEDKTYKYICRNFSNFCNVDVVEILPYLPCLTARDQDRLRATCTLSGNR
DTLWHLFNTLQRRPGWVEYFIAALRGCELVDLADEVASVYESYQPRTS DRP
PDPLEPPSLPAERPGPPTPAAAHSIPYNSCREKEPSYPMPVQETQAPESPG
ENSEQALQTLSPRAIPRNPDPGGPLESSSDLAALSPLTSSGHQEKDTELGSTH
TAGATSSLTPSRGPVSPSVDQPLAR

Fragment 5 (1-171):

MPFAEDKTYKYICRNFSNFCNVDVVEILPYLPCLTARDQDRLRATCTLSGNR
DTLWHLFNTLQRRPGWVEYFIAALRGCELVDLADEVASVYESYQPRTS DRP
PDPLEPPSLPAERPGPPTPAAAHSIPYNSCREKEPSYPMPVQETQAPESPG
ENSEQALQTLSPRAIPR

Fragment 6 (1-167):

MPFAEDKTYKYICRNFSNFCNVDVVEILPYLPCLTARDQDRLRATCTLSGNR
DTLWHLFNTLQRRPGWVEYFIAALRGCELVDLADEVASVYESYQPRTS DRP
PDPLEPPSLPAERPGPPTPAAAHSIPYNSCREKEPSYPMPVQETQAPESPG
ENSEQALQTLSPR

Fragment 7 (168-510):

AIPRNPDPGGPLESSSDLAALSPLTSSGHQEKDTELGSTHTAGATSSLTPSRG
PVSPSVDQPLARRSTPRASRLPGPTGSVSTGTSFSSSSPGLASAGAAEGK
QGAESDQAPIICSSGAEAPANSLPSKVPTTLMPVNTVALKVPANPASVSTVP

Fig. 5 b

SKLPTSSKPPGAVPNALTNPAPSKLPISTRAGMVPSKVPTSMVLTKVSAST
VPTDGSSRNEETPAAPTPAGATGGSSAWLDSSFENRGLGSELSKPGVLASQ
VDSPFSGCFEDLAISASTSLGMGPCHGPEENEYKSEGTFGIHVAENPSIQLLE
GNPGPPADPDGGPRPQADRKFQEREVPCR

Fragment 8 (172-510):

NPDGGPLESSSDLAALSPLTSSGHQEKDTELGSTHTAGATSSLTPSRGPVSP
SVSFQPLARSTPRASRLPGPTGSVVSTGTSFSSSSPGLASAGAAEGKQGAE
SDQAPIICSSGAEAPANSLPSKVPTTLMPVNTVALKVPANPASVSTVPSKLPT
SSKPPGAVPNALTNPAPSKLPISTRAGMVPSKVPTSMVLTKVSASTVPTDG
SSRNEETPAAPTPAGATGGSSAWLDSSFENRGLGSELSKPGVLASQVDSFPF
SGCFEDLAISASTSLGMGPCHGPEENEYKSEGTFGIHVAENPSIQLLEGNPG
PPADPDGGPRPQADRKFQEREVPCR

Fragment 9 (243-510):

STPRASRLPGPTGSVVSTGTSFSSSSPGLASAGAAEGKQGAESDQAPIICSS
GAEAPANSLPSKVPTTLMPVNTVALKVPANPASVSTVPSKLPTSSKPPGAVP
NALTNPAPSKLPISTRAGMVPSKVPTSMVLTKVSASTVPTDGSSRNEETPA
APTPAGATGGSSAWLDSSFENRGLGSELSKPGVLASQVDSFPGCFEDLAI
SASTSLGMGPCHGPEENEYKSEGTFGIHVAENPSIQLLEGNPGPPADPDGG
PRPQADRKFQEREVPCR

Fig. 5 c

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Fragment 10 (247-510):

ASRLPGPTGSVVSTGTSFSSSPGLASAGAAEGKQGAESDQAPIICSSGAEAPANSLPSKVPTTLMPVNTVALKVPANPASVSTVPSKLPTSSKPPGAVPNALTNPAPSKLPINSTRAGMVPSKVPTSMVLTKVSASTVPTDGSSRNEETPAAPTPAGATGGSSAWLDSSFENRGLGSELSKPGVLASQVDSPFSGCFEDLAISASTSLGMGPCHGPEENEYKSEGTFGIHVAENPSIQLLEGNPGPPADPDGGPRPQADRKFQEREVPCHR

Fragment 11 (250-510):

LPGPTGSVVSTGTSFSSSPGLASAGAAEGKQGAESDQAPIICSSGAEAPANSLPSKVPTTLMPVNTVALKVPANPASVSTVPSKLPTSSKPPGAVPNALTNPAPSKLPINSTRAGMVPSKVPTSMVLTKVSASTVPTDGSSRNEETPAAPTPAGATGGSSAWLDSSFENRGLGSELSKPGVLASQVDSPFSGCFEDLAISASTSLGMGPCHGPEENEYKSEGTFGIHVAENPSIQLLEGNPGPPADPDGGPRPQADRKFQEREVPCHR

Fig. 5 d

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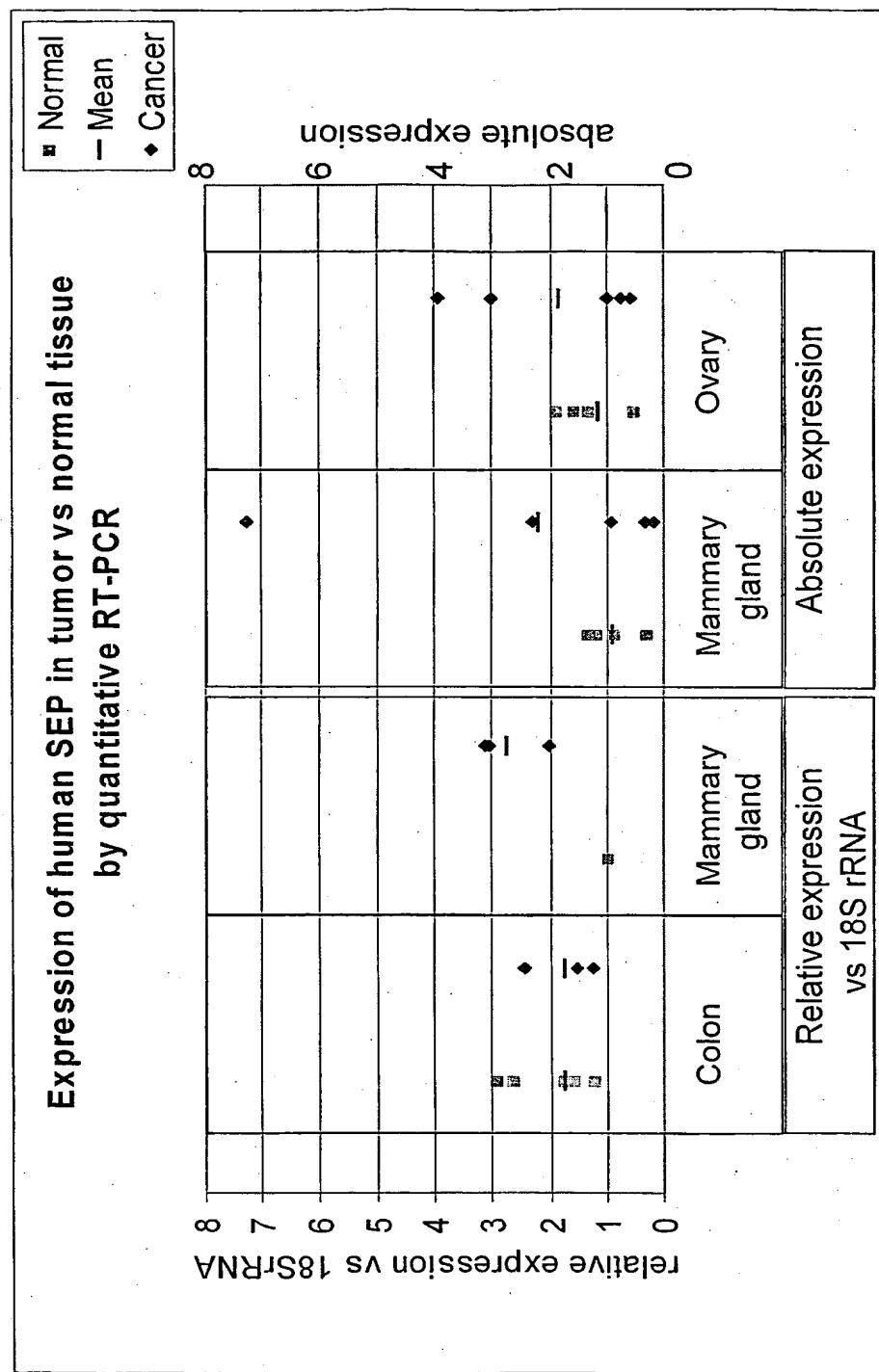


Fig. 6

Fig. 7

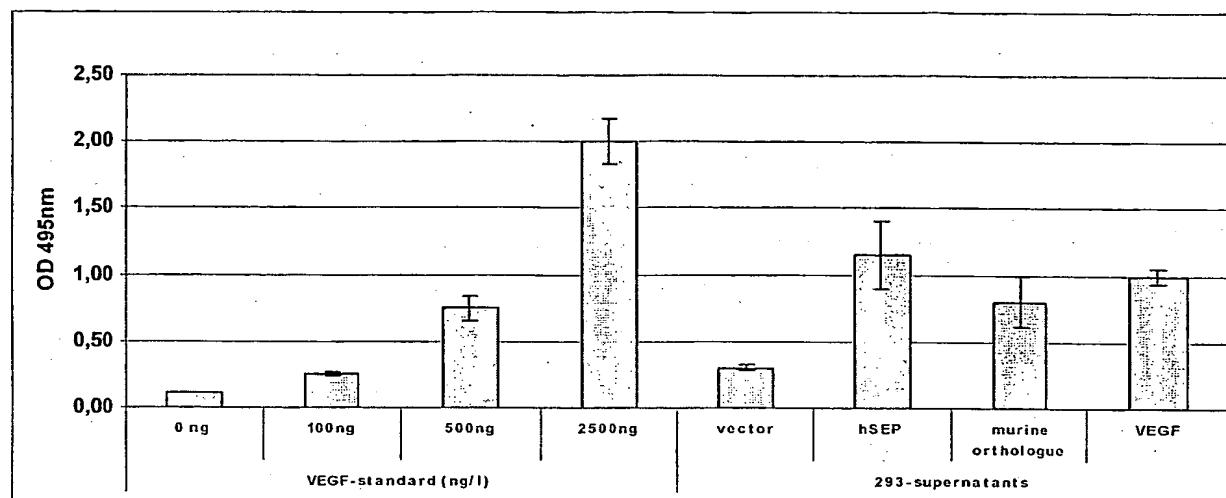
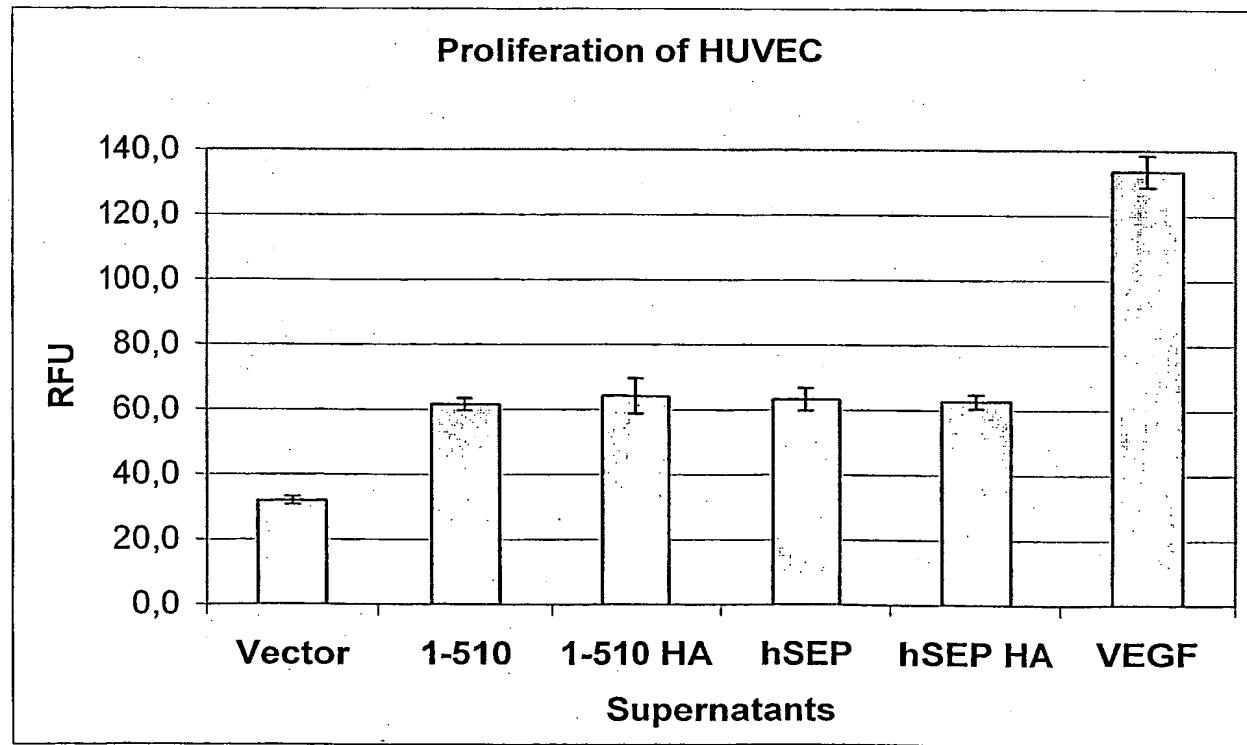


Fig. 8



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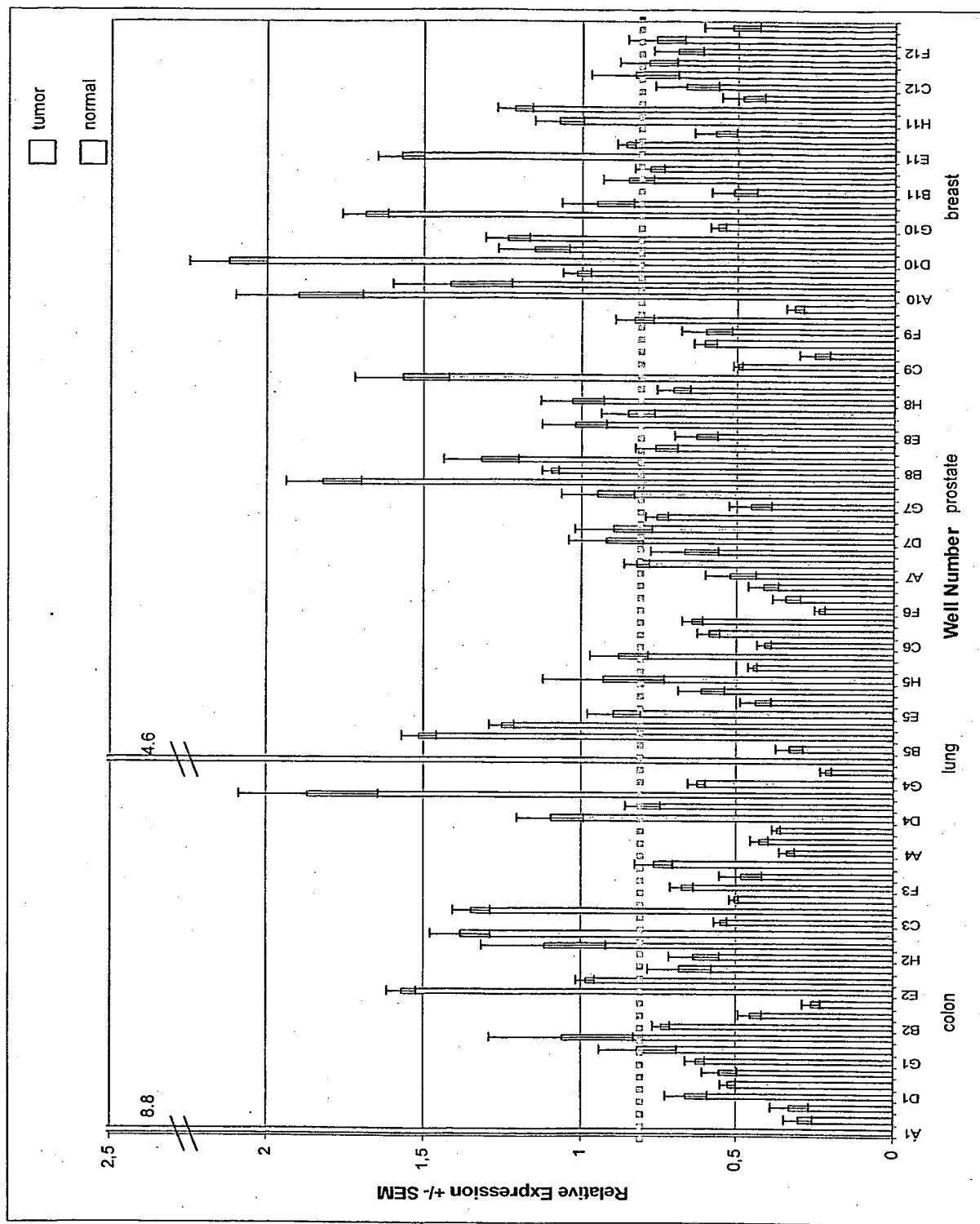


Fig. 9

Fig. 10

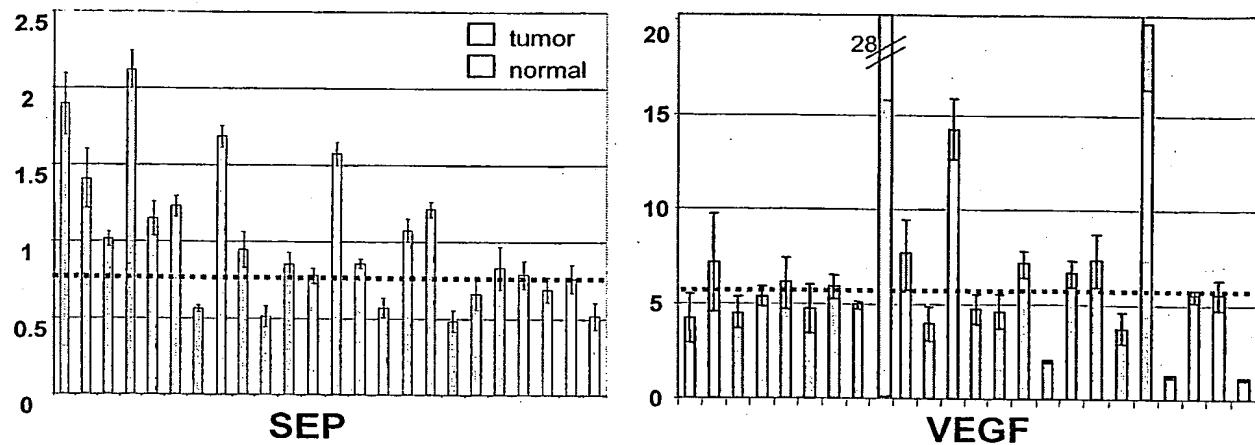
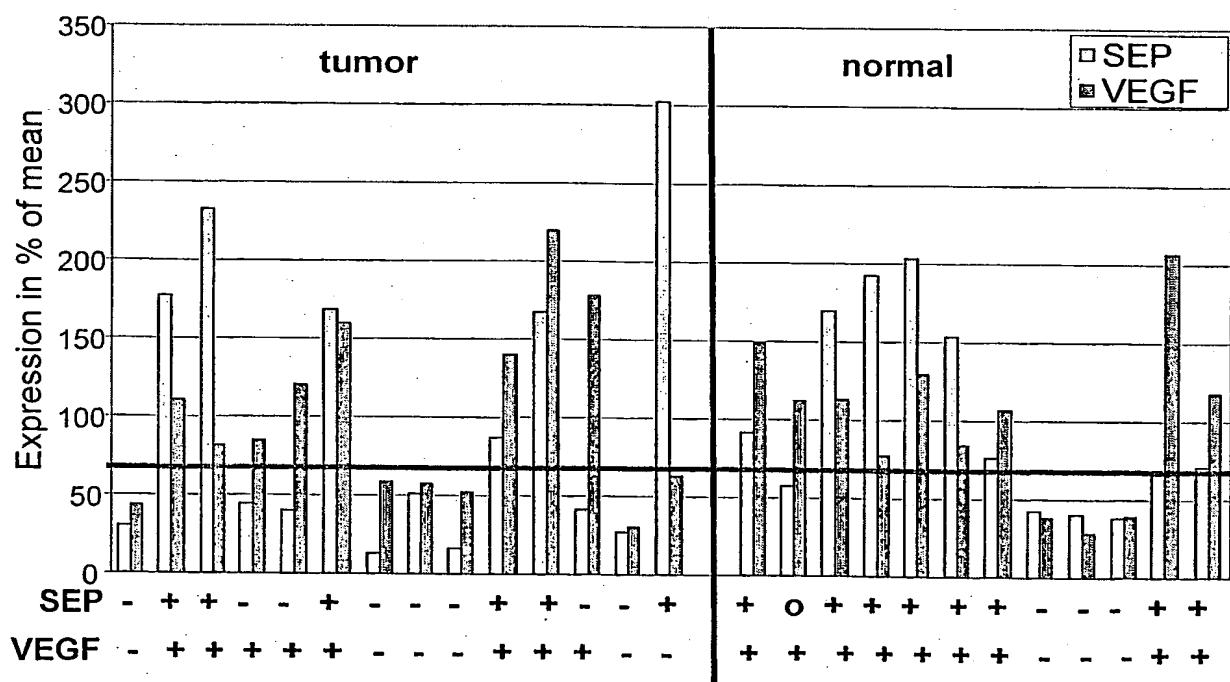


Fig. 11



**Expression of hSEP in relation to G6PDH
under hypoxic conditions by quantitative
RT-PCR**

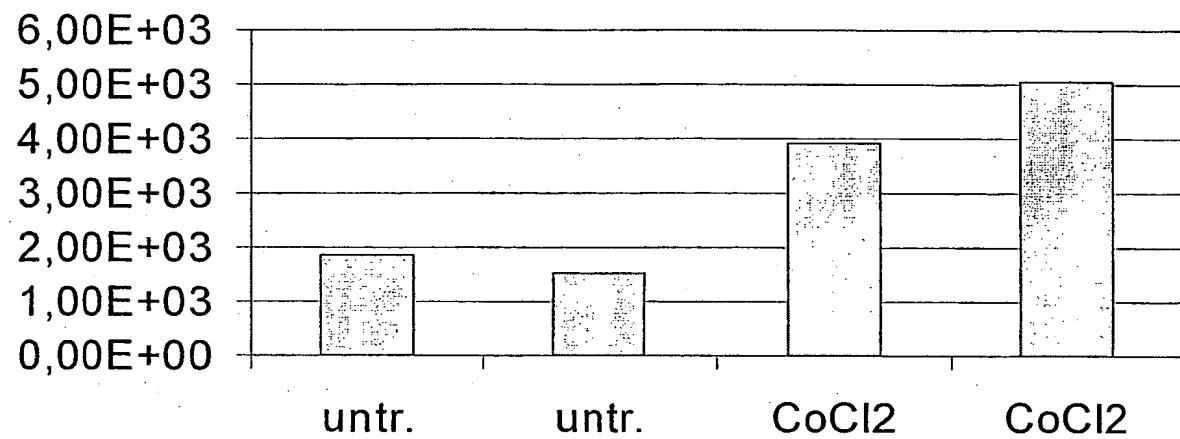
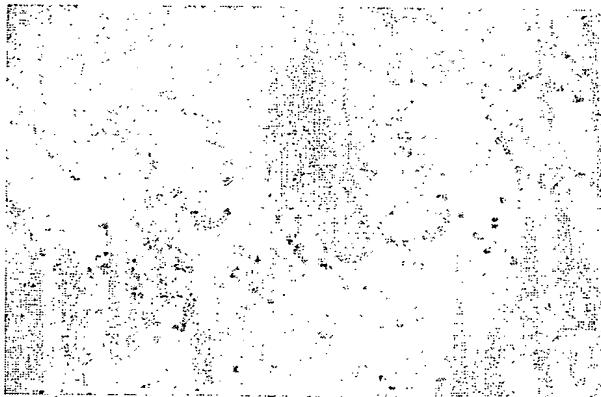


Fig. 12

**Fig. 13 a:
cancer**

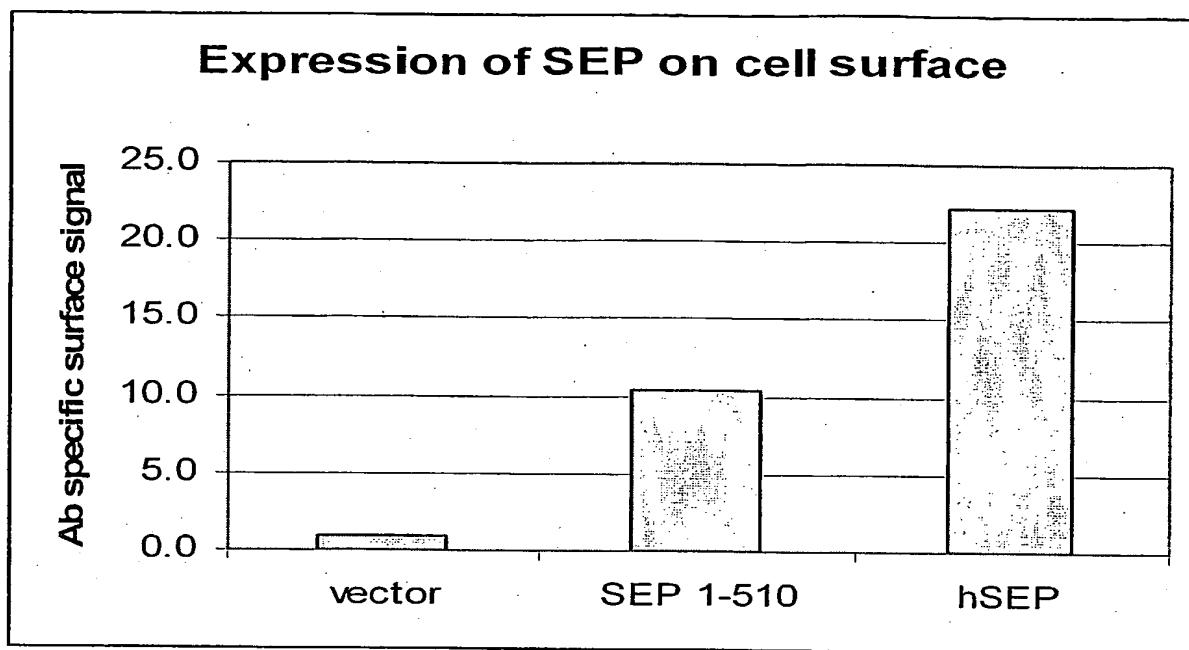


**Fig. 13 b:
normal**



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Fig. 13



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Fig. 14

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Fig. 15 a

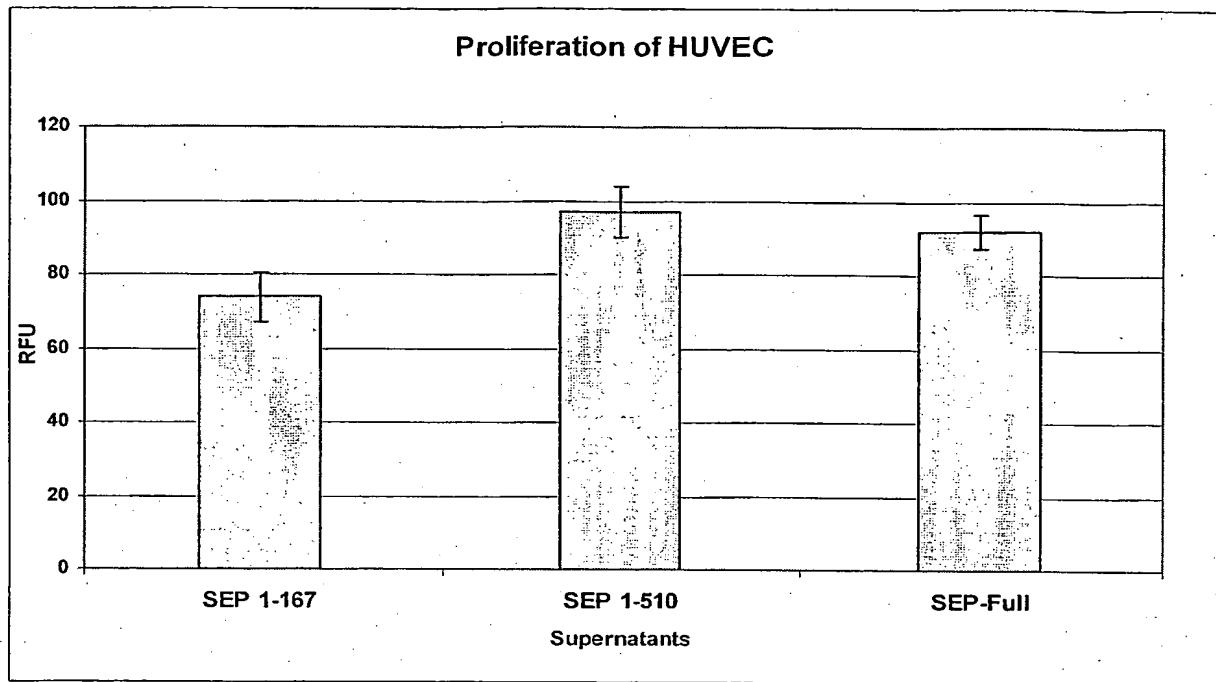
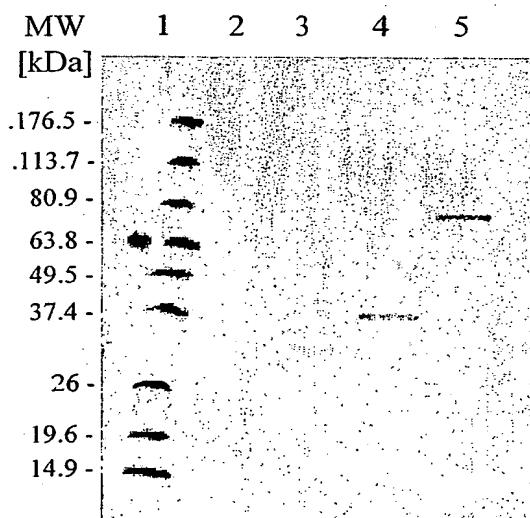


Fig. 15 b



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Fig. 15 c

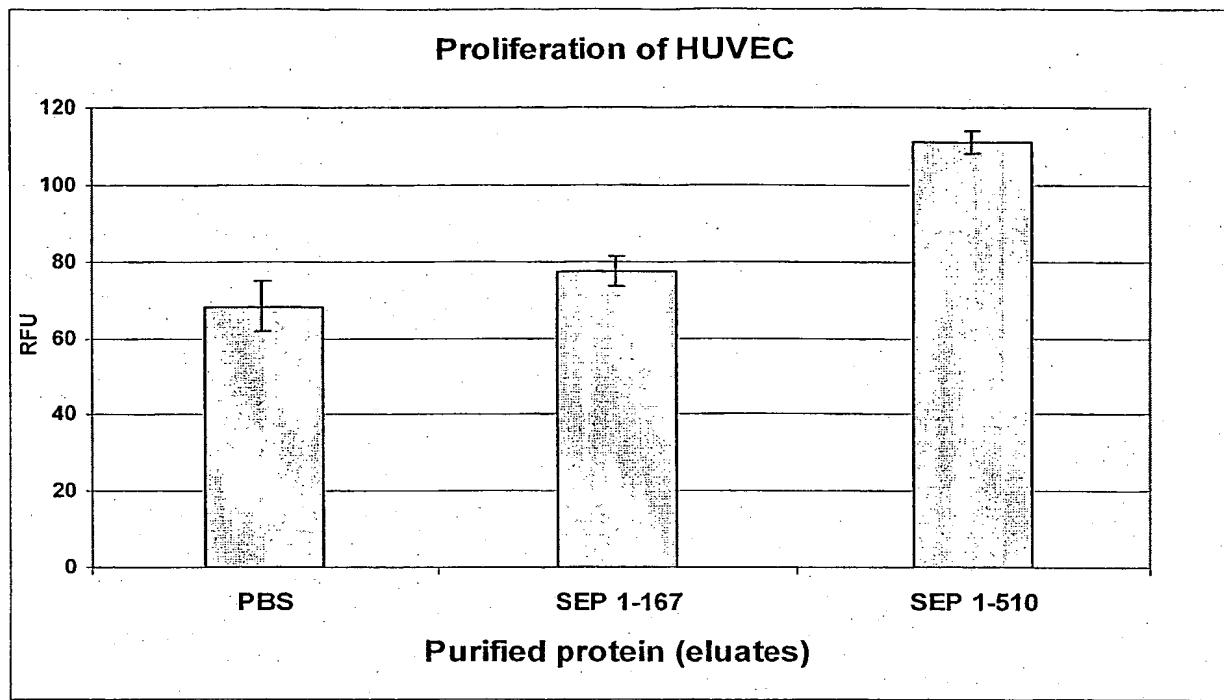
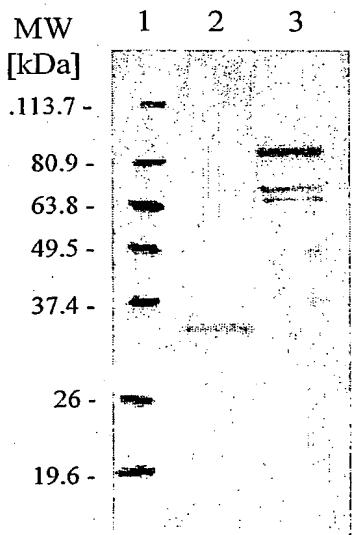


Fig. 15 d

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Fig. 16 a

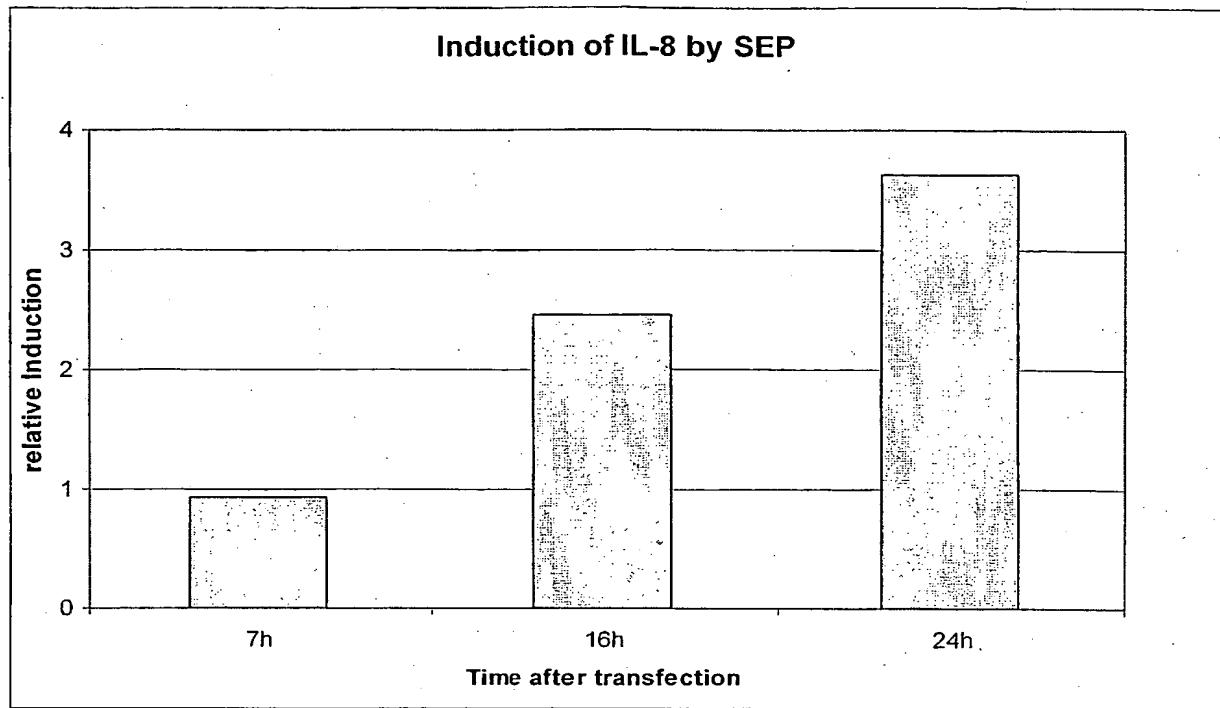
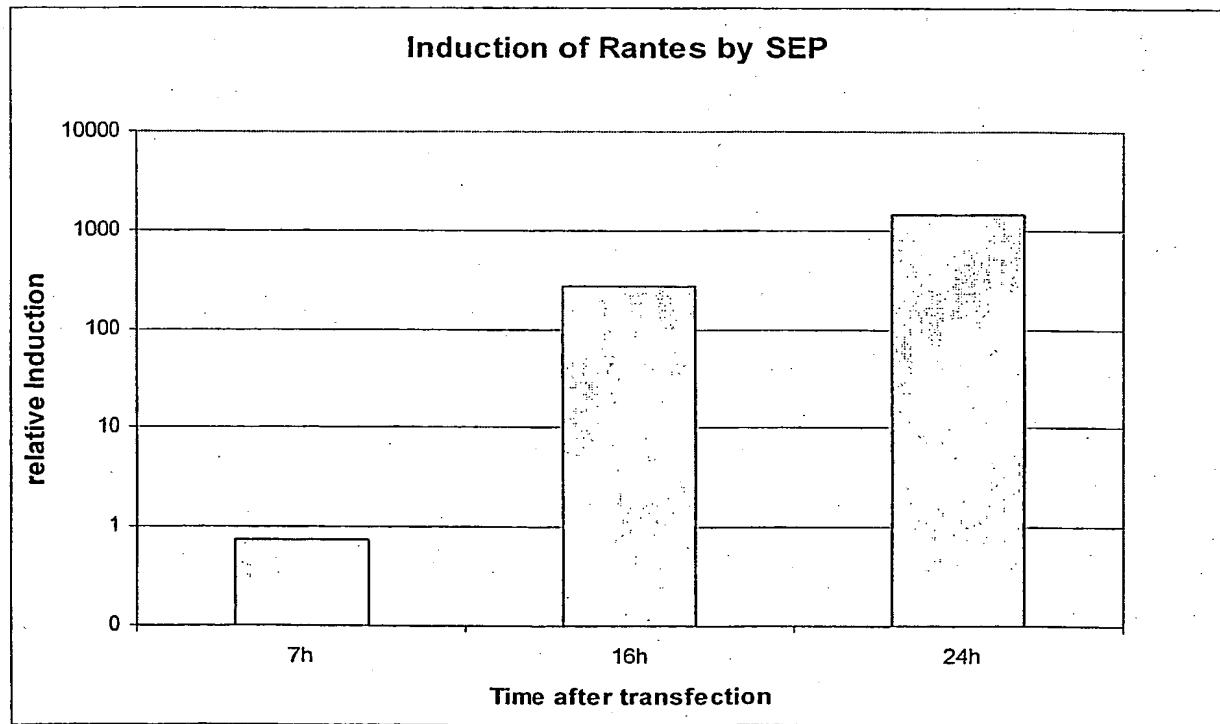


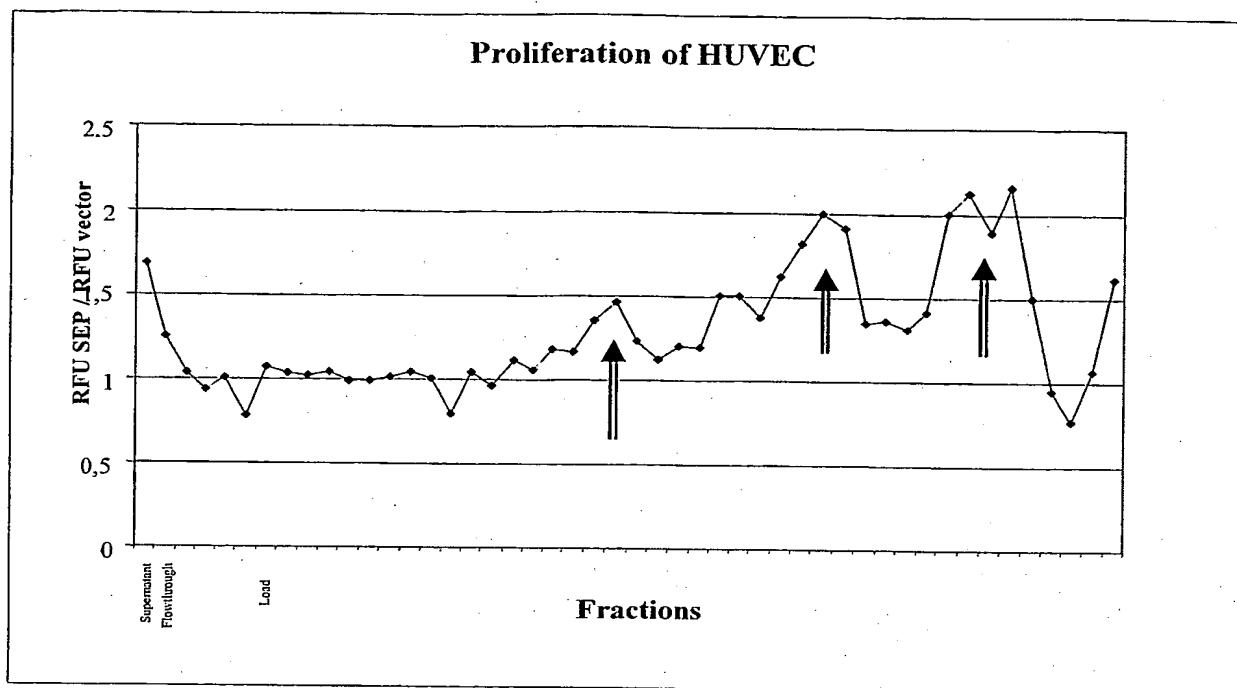
Fig. 16 b



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Fig. 16 c



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Fig. 17

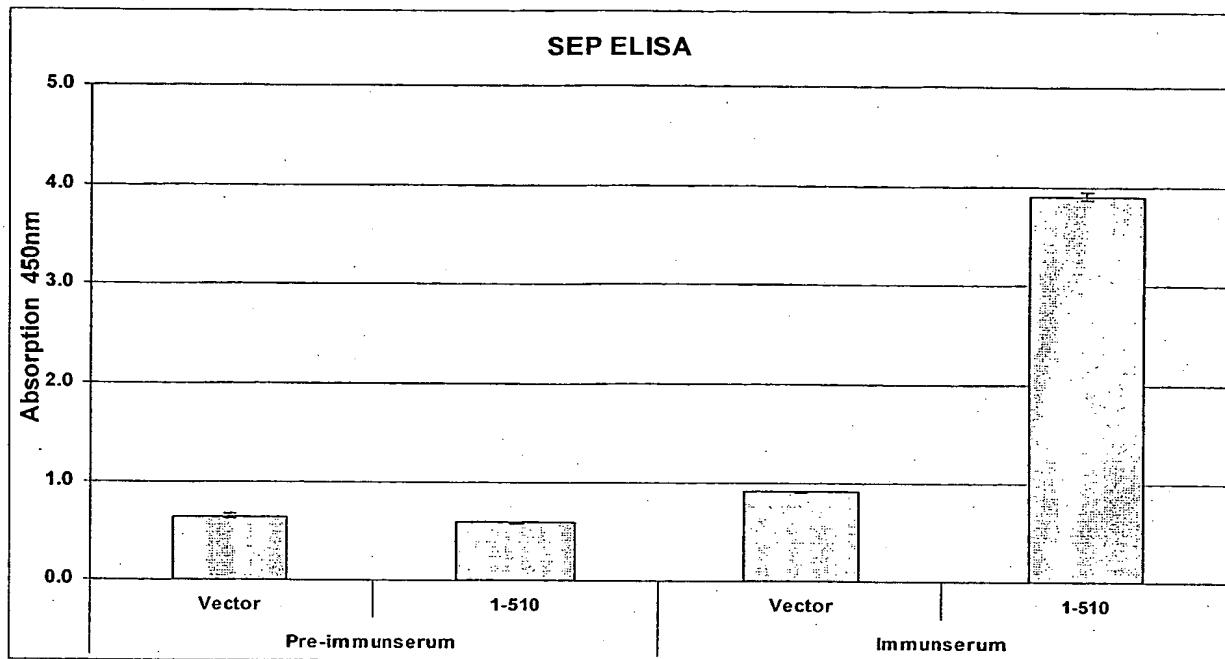
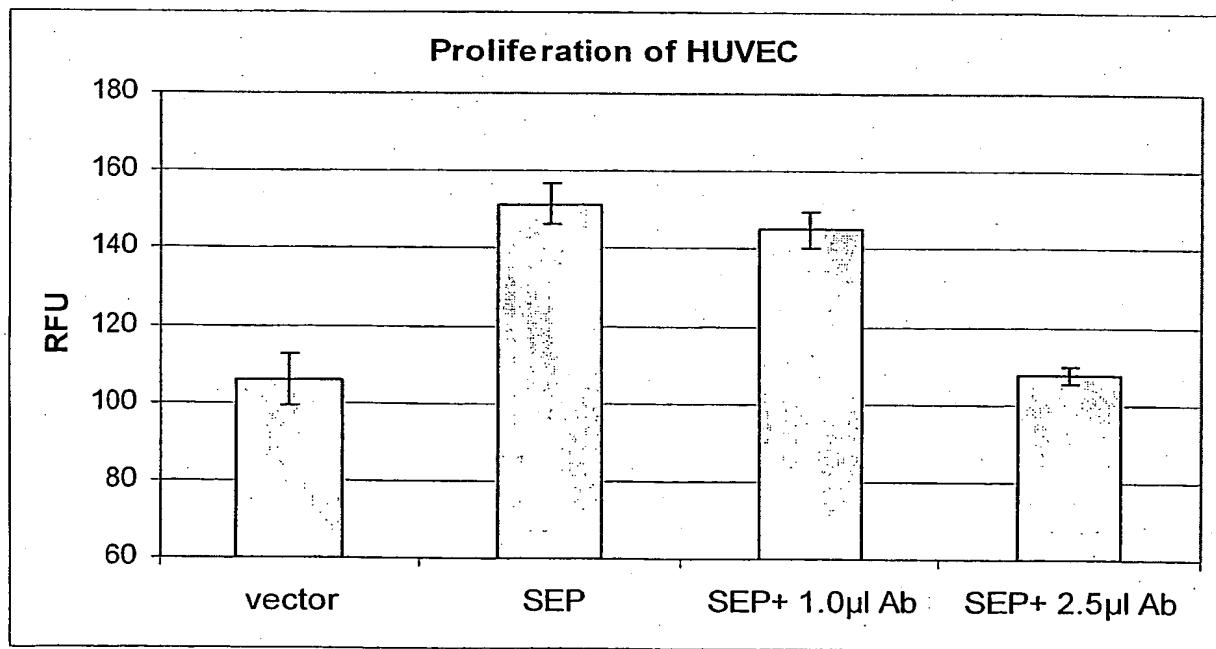


Fig. 18



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Fig. 19

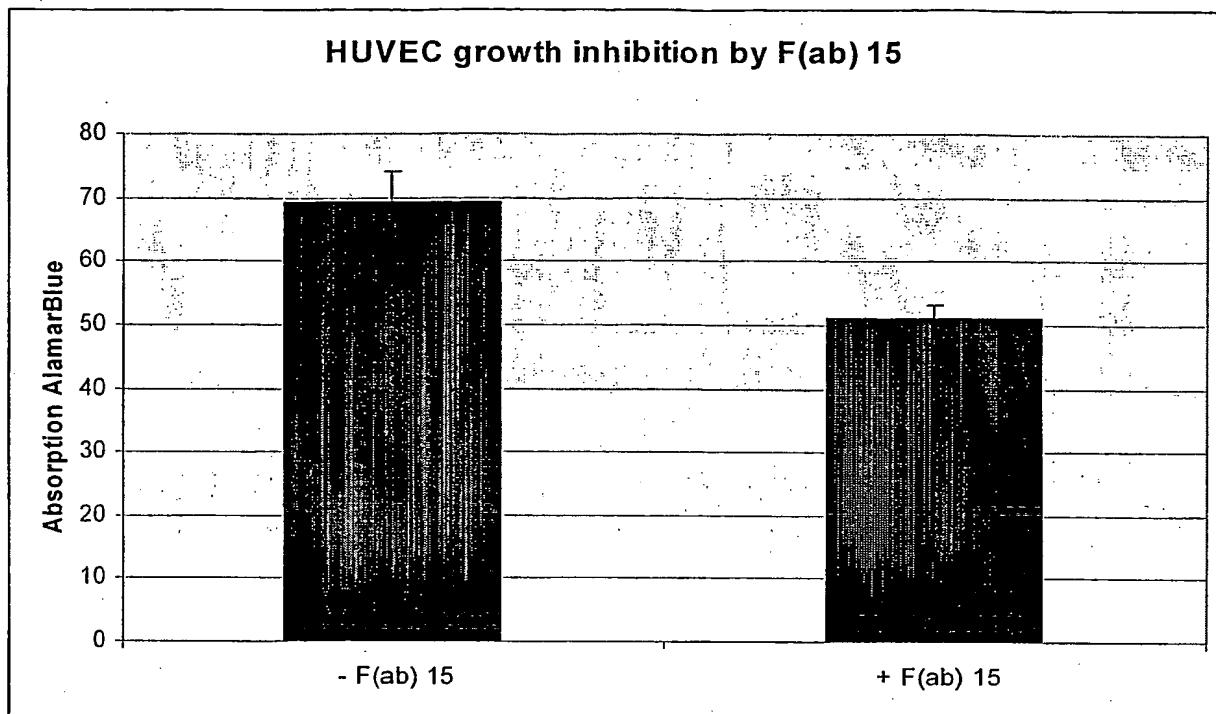
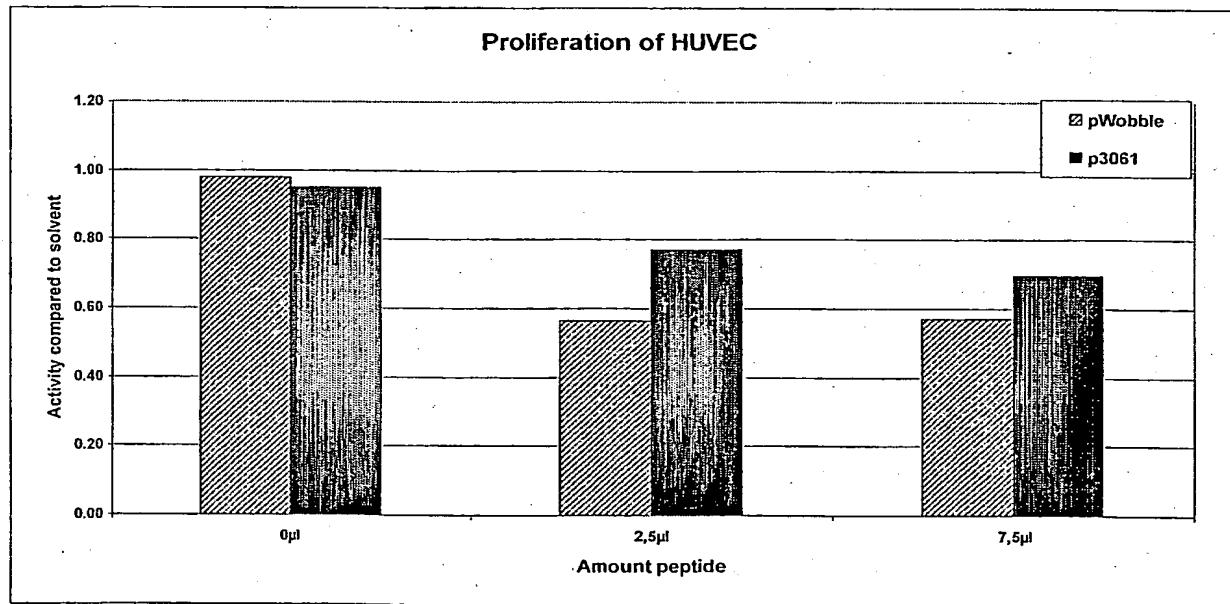


Fig. 20



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Fig. 21 a

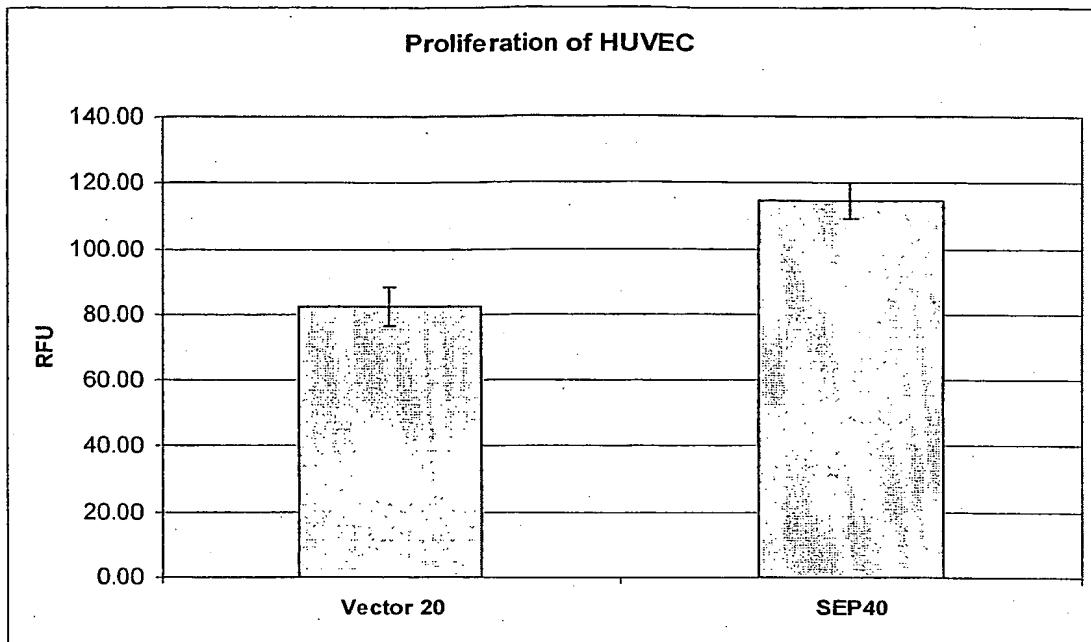
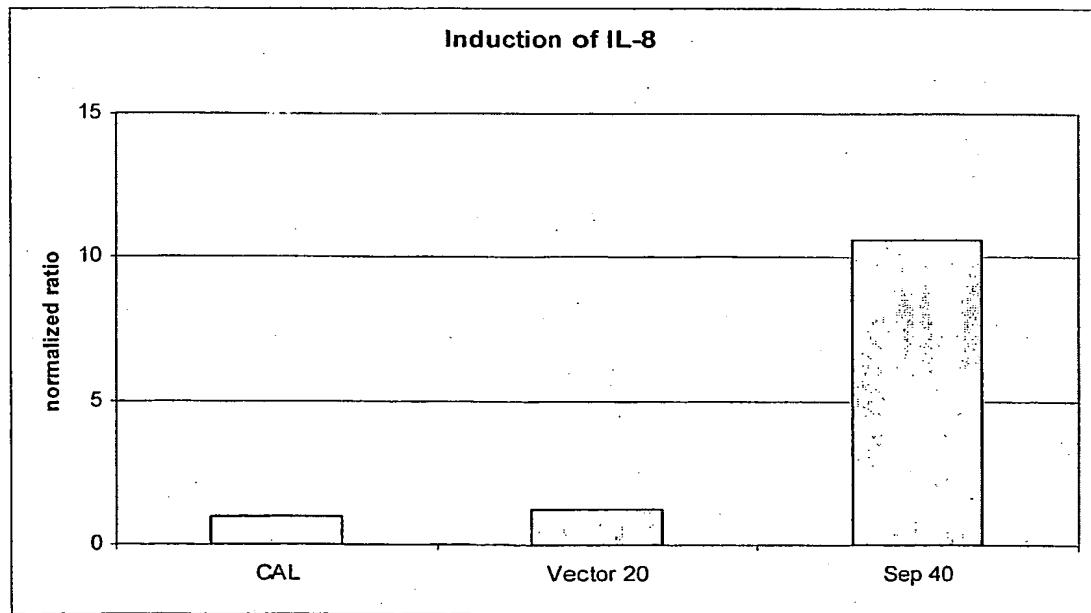


Fig. 21 b



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Fig. 21 c

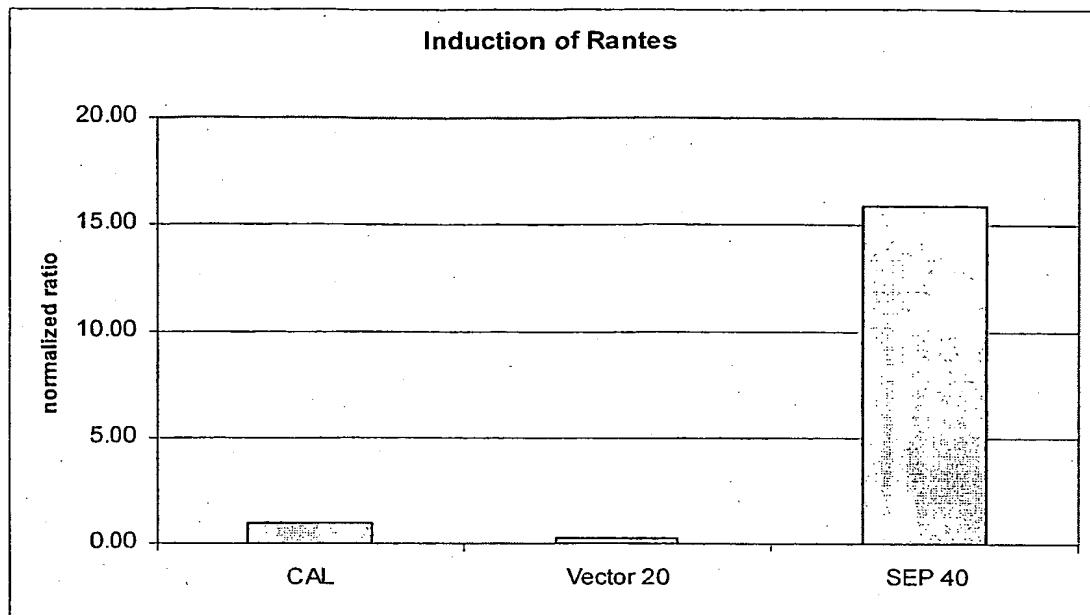
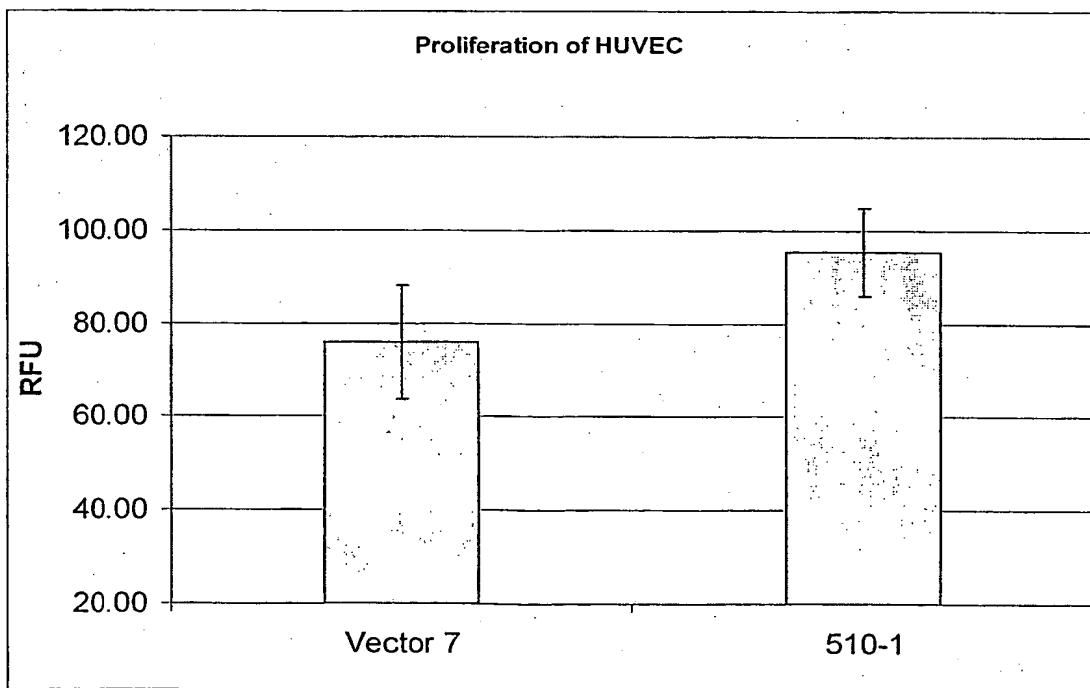


Fig. 21 d



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Fig. 21 e

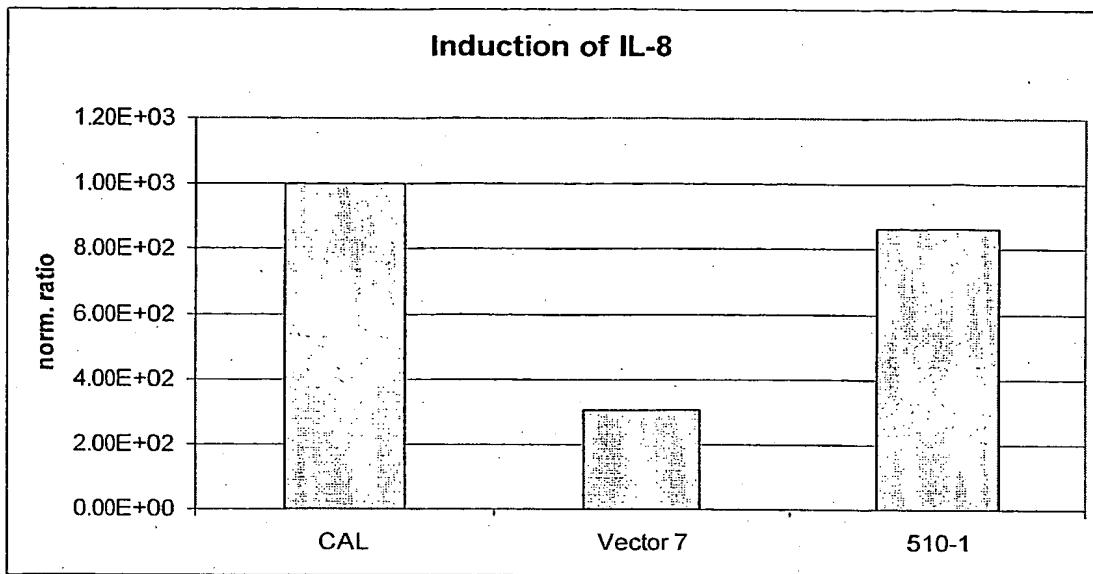
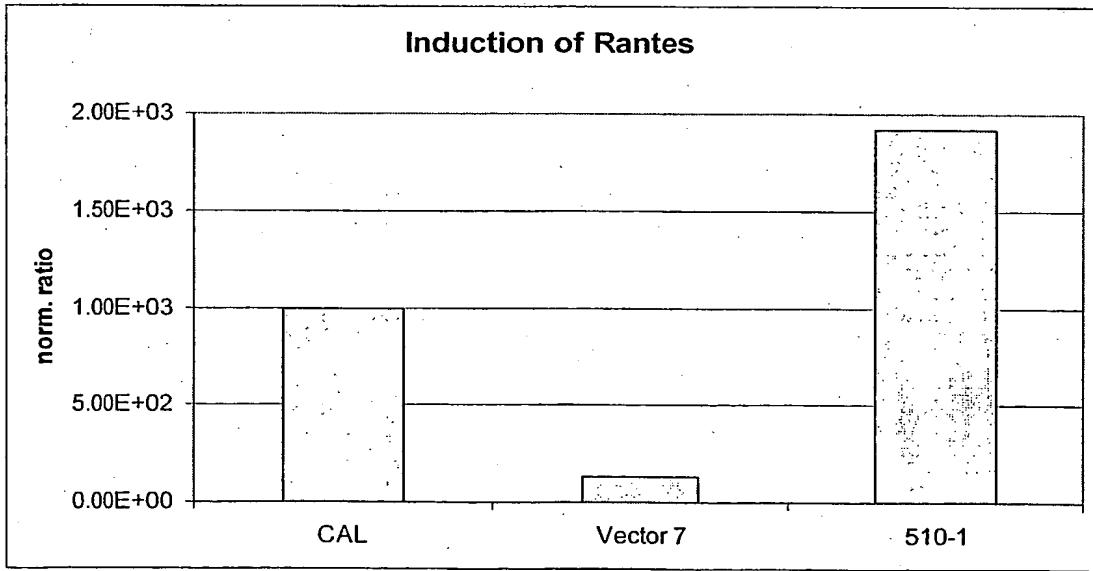


Fig. 21 f



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